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J. #4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of
Reid W. Von Borstel, et al
Serial No. 09/494,243
Filed: January 31, 2000



Atty. Ref.: 1331-300
Group:
Examiner:

For: ACYL DEOXYRIBONUCLEOSIDE DERIVATIVES
AND USES THEREOF

* * * * *

April 7, 2000

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

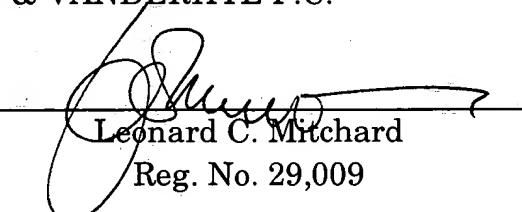
INFORMATION DISCLOSURE STATEMENT

Attached is a completed Form PTO-1449 listing references in connection with this application. Copies of these references are in the file-wrapper of parent application Serial No. 08/309,572 and are therefore not being submitted with this IDS.

The Examiner is requested to initial the attached PTO-1449, and to return a copy of the initialed document to the undersigned as an indication that the listed references have been considered and made of record.

Respectfully submitted,

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SERIAL NO.

09/494,243

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	RECEIVED
							RECEIVED
	3,585,188	6/71	MARUMOTO, et al			APR 13 2000	RECEIVED
	4,757,139	7/88	KAWAGUCHI, et al			APR 13 2000	RECEIVED
	4,084,432	9/77	BAKER			APR 13 2000	RECEIVED
	3,975,367	8/76	GISH et al			APR 13 2000	RECEIVED
	4,208,406	6/80	LAPINET et al			APR 13 2000	RECEIVED
	4,560,678	12/85	RANSON			APR 13 2000	RECEIVED
	4,657,896	4/87	YANO et al			APR 13 2000	RECEIVED
	4,675,189	6/87	KENT et al			APR 13 2000	RECEIVED
	4,758,553	7/88	OGOSHI			APR 13 2000	RECEIVED
	3,991,045	11/76	ISHIDA et al			APR 13 2000	RECEIVED
	4,868,162	9/89	KAWAGUCHI			APR 13 2000	RECEIVED
	5,246,708	9/93	von Borstel et al			MAIL ROOM	
	4,048,432	9/77	Baker			MAIL ROOM	
	3,894,000	7/75	Wechter et al			MAIL ROOM	

FOREIGN PATENT DOCUMENTS

TRANSLATION

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
0056265	7/82	EUROPE				
2023085	2/77	JAPAN				
8167598	10/83	JAPAN				
0028929	2/85	JAPAN				
60-174797	9/85	JAPAN				
60-064907	4/85	JAPAN				
58-167589	10/83	JAPAN				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)

	Chemical Abstracts, Vol. 74, No. 112368K, RAJABALEE, Angew. Chem. Int. Ed. Engl. 10(1):75 (1971)
	Rosowsky et al, "Cancer Treatment Reports" 65:93-99 (Jan/Fed. 1981).
	Kanazir et al, <u>Bull. Inst. Nuc. Sci. "Boris, Kidrich"</u> 9:145-153 (1959)
	Beltz et al, <u>Bioch. Biophys. Acta</u> 297:258-267 (1973)

Examiner

Date Considered

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APR 07 2000

FILING DATE

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FOREIGN PATENT DOCUMENTS

TRANSLATION

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	RECEIVED
57-091995	6/82	JAPAN					
2147094	4/73	WEST GERMANY					
1941942	3/71	WEST GERMANY					
2096712	2/72	FRANCE					
2556727	6/85	FRANCE					
0123917	9/81	JAPAN					
6049315	3/83	JAPAN					
0222192	5/87	EUROPEAN					
3319282	11/83	GERMAN					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)

Hunting, D.J., et al, <u>Carcinogenesis</u> 6:1525-1528 (1985)	TC 2800 MAIL ROOM	RECEIVED
Golba, et al, <u>Int. J. Rad. Biol.</u> 13:261-268 (1967)		
Goh et al, <u>Proc. Soc. Exp. Biol. Med.</u> 145:938-943 (1974)		
Horikawa, et al, <u>Exp. Cell Res.</u> 34:198-200 (1964)		
Pantic, et al, <u>Nature</u> 193:993-994 (1962)		
Paoletti, et al, <u>Rev. Francais. Etudes Clin. et Bio.</u> 9:950-955 (1964)		
Petrovic, et al, <u>Int. J. Radiat. Biol.</u> 18:243-258 (1970)		
Petrovic, et al, <u>Studia Biophysica</u> 43:13-18 (1974)		
Petrovic, et al, <u>Int. J. Radiat. Res.</u> 11:609-611 (1967)		
Savkovic et al, <u>Nature</u> 203:1297-1298 (1964)		
Savkovic et al, <u>Nature</u> 211:1179-1180 (1966)		
Savkovic et al, <u>Int. J. Rad. Biol.</u> 9:361-368 (1965)		
Smets, et al, <u>Int. J. Rad. Biol.</u> 13:269-273 (1967)		
Soska et al, <u>Folia Biologica</u> 5:190-198 (1959)		
Sugahara et al, <u>Brookhaven Symposia in Biology</u> , 284-302 (1967)		
Wagner, <u>Int. J. Rad. Biol.</u> 12:101-112 (1967)		
Wilczok et al, <u>Int. J. rad. Biol.</u> 9:201-211 (1965)		
Goyanes-Villaescusa et al, <u>Lancet</u> 2:575-576 (1973)		
Dumont, <u>Ann. Surg.</u> 150:799-807 (1959)		
Nicolau et al, <u>Der Hautarzt</u> , 17:512-515 (1966)		
Marshak et al, <u>Proc. Soc. Exp. Biol. Med.</u> 58:62-63 (1945)		
Newman et al, <u>Am. J. Physiol.</u> 164:251-253 (1951)		
Casida et al, <u>Biochemical Pharmacology</u> 15:627-644 (1966)		

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	Hackh's Chemical Dictionary 3rd ed. Julius Grant, ed. pages 44, 45, 332, 333	TC 2800 MAIL ROOM
	Ensminger et al, <u>Biochemical Pharmacology</u> , 28: 1541-1545 (1979) thymidine 5'-phosphate.	RECEIVED APR 12 2000
	Ensminger et al, the Chemical Abstracts, 92: 87921x (1980)	RECEIVED APR 12 2000
	Narang et al, the Chemical Abstracts, 83:147700a (1975)	RECEIVED APR 12 2000
	Adamak et al, the Chemical Abstracts, 106: 156803g (1987)	RECEIVED APR 12 2000
	Pfleiderer, the Chemical Abstracts, 107: 218016j (1987)	RECEIVED APR 12 2000
	Nair et al, the Chemical Abstracts, 101: 192382z (1984)	RECEIVED APR 12 2000
	Ishido et al, the Chemical Abstracts, 92: 59149h (1980)	RECEIVED APR 12 2000
	Fridovich, <u>Annu. Rev. Biochem.</u> , 44:147-159 (1975)	RECEIVED APR 12 2000
	BIOCHEMISTRY, Vol. 13, No. 3, 29th January 1974, pages 553-559; M.J. Robins et al: "3'-O-aminoacyl-2'-deoxyadenosines and 2'-O-aminoacyl-3'-deoxyadenosines related to charged transfer ribonucleic acid termini"	RECEIVED APR 12 2000
	BIOCHEMISTRY, Vol. 14, No. 14, 15th July 1974, pages 3144-3151; S.P. Dutta et al: "Synthesis and properties of the naturally occurring N-[(9-beta-D-ribofuranosylpurin-6-yl)-N-methylcarbamoyl]-L-threonine (mt6A) and other related synthetic analogs	RECEIVED APR 12 2000
	BIOCHEMISTRY, Vol. 20, No. 1, 6th January 1981, pages 8-15, American Chemical Society; A. Bhata et al: "Stereochemical control of ribosomal peptidyltransferase reaction. Role of amino acid side-chain orientation of acceptor substrate"	RECEIVED APR 12 2000
	BIOCHEMISTRY, Vol. 20, No. 12, 9th June 1981, pages 3480-3485, American Chemical Society; K. Quiggle et al: "Donor Site of Ribosomal Peptidyltransferase: Investigation of Substrate specificity using 2'(3')-O-(N-acylaminoacyl)dinucleoside phosphates as models of the 3'terminus of N-acylaminoacyl transfer ribonucleic acid"	RECEIVED APR 12 2000
	JOURNAL OF AMERICAN CHEMICAL SOCIETY, Vol. 104, No. 2, 1982, pages 544-547, American Chemical Society; G. Buchi et al: "Photochemical epoxidation of aflatoxin B1 and sterigmatocystin: Synthesis of Guanine-Containing adducts"	RECEIVED APR 12 2000
	PURE AND APPLIED CHEMISTRY, Vol. 52, No. 12, 1980, pages 2705-2715, IUPAC GB; T. Matsuura et al: "Organic Chemical Approach to Photo-Cross-Links of Nucleic Acids to Proteins"	RECEIVED APR 12 2000
	JOURNAL OF CARBOHYDRATE NUCLEOSIDES. NUCLEOTIDES, Vol. 4, No. 6, 1977, pages 387-408, Marcel Dekker, Inc.; E.K. Ryu et al; "Aminoacyl Derivatives of Nucleosides, Nucleotides, and Polynucleotides. XXVII. General Synthesis of 2'(3')-O-Aminoacyl Dinucleoside Phosphates Derived from the AA-tRNA terminus"	RECEIVED APR 12 2000
	Morrison and Boyd, Fourth Edition; "Organic Chemistry", Allyn and Bacon, Inc., Boston, 1983	RECEIVED APR 12 2000
	Leukemia, 2(10) 109-110 (1988)	RECEIVED APR 12 2000
	Blood, 74(6) 1923-1928 (1989)	RECEIVED APR 12 2000
	Cancer Treatment Reports, 69(7-8), 851-857 (1985)	RECEIVED APR 12 2000

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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